QUICKSCAN - CANVAS

The Goldilocks Project

NAME: The Goldilocks Project
DATE: September 2, 2024 7:18 AM

DESCRIPTION OF TECHNOLOGY
The Goldilocks project is a project where data about the discovery of exoplanets will be analyzed and used in predictive models. This will be done to see if the amount of the discoveries could be increased or the accuracy of the current discoveries could be improved. The main focus will lay on exoplanets that could harbor human life.

HUMAN VALUES

The users are the organizations that would look for exoplanets and they could use the project to change or refine their discovery methods.

TRANSPARENCY

The project is for scientific research so there won't be a business model in the project the analysis will be defined.

IMPACT ON SOCIETY

At the moment of creating this project many things are plaguing the world is changing the climate is rapidly changing through human influence, overpopulation is an increasing problem, the Covid-19 pandemic also proved that a virus engineered by bad actors could destroy the world. These are just a few ways how the world could end within now and 100 years that is why humanity should be searching for solutions for these problems but also look for ways if problems can't be fixed on earth. This project would be the first step in solving…

STAKEHOLDERS

- Goverments
- Space agencies
- Independent observatories/science organisations

SUSTAINABILITY

The data is collected via satellites and via ground observatories. All the satellites are powered on solar panels the ground observatories are likely not powered on green energy because they require quite a lot of energy. These ground observatories sometimes are run on renewable energy or partially run on renewable energy but mostly they are still run on fossil fuels. Since most of these observatories are either run by governments or research institutes they are more likely to switch to renewable energy than if they were…

HATEFUL AND CRIMINAL ACTORS

The project is a data analisis so I can't be used to break the law. The only possible way to break the law is fasify the results of the project and use these to lure governments and other organisations into investing in certain methods or companies. At the base that would be Fraud but it would only be possible if someone altered the data or results of the analysis.

DATA

One of the big pitfalls is that there is a lot of missing data on the radius and the mass of the planets because it isn't always visible depending on which discovery method is used. If there is a value for the radius or the mass there is a big chance there are 2 error values of how much bigger or smaller the value can be.

FUTURE

This project could help space agencies with making decisions on which discovery methods should be used. Once enough good candidate exoplanets are found the project could help choose the one that mankind should go and visit.

PRIVACY

No to only personal data it registers what organization discovered the exoplanet.

INCLUSIVITY

The data comes from multiple sources and are checked to be sure they are accurate. The data is also flagged when it's possibly not accurate or correct a so-called controversial flag.

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QUICKSCAN - CANVAS - HELPSIDE

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HUMAN VALUES

How is the identity of the (intended) users affected by the technology?

To help you answer this question think about sub questions like:

- If two friends use your product, how could it enhance or detract from their relationship?
- Does your product create new ways for people to interact?…

TRANSPARENCY

Is it explained to the users/stakeholders how the technology works and how the business model works?

- Is it easy for users to find out how the technology works?
- Can a user understand or find out why your technology behaves in a certain way?
- Are the goals explained?
- Is the idea of the technology explained?
- Is the technology company transparent about the way their…

IMPACT ON SOCIETY

What is exactly the problem? Is it really a problem? Are you sure?

Can you exactly define what the challenge is? What problem (what 'pain') does this technology want to solve? Can you make a clear definition of the problem? What 'pain' does this technology want to ease? Whose pain? Is it really a problem? For who? Will solving the problem make the world better? Are you sure? The problem definition will help you to determine…

STAKEHOLDERS

Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by…

When thinking about the stakeholders, the most obvious one are of course the intended users, so start there. Next, list the stakeholders that are directly affected. Listing the users and directly affected stakeholders also gives an impression of the intended context of the technology.
…

SUSTAINABILITY

In what way is the direct and indirect energy use of this technology taken into account?

One of the most prominent impacts on sustainability is energy efficiency. Consider what service you want this technology to provide and how this could be achieved with a minimal use of energy. Are improvements possible?

HATEFUL AND CRIMINAL ACTORS

In which way can the technology be used to break the law or avoid the consequences of breaking the law?

Can you imagine ways that the technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Steal things. Fraud/ identity theft and so on. Or will people use the technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoins to launder…

DATA

Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into…

There are fundamental issues with data. For example:

- Data is always subjective;
- Data collections are never complete;
- Correlation and causation are tricky concepts;
- Data collections are often biased;…

FUTURE

What could possibly happen with this technology in the future?

Discuss this quickly and note your first thoughts here. Think about what happens when 100 million people use your product. How could communities, habits and norms change?

PRIVACY

Does the technology register personal data? If yes, what personal data?

If this technology registers personal data you have to be aware of privacy legislation and the concept of privacy. Think hard about this question. Remember: personal data can be interpreted in a broad way. Maybe this technology does not collect personal data, but can be used to assemble personal data. If the technology collects special personal data (like…

INCLUSIVITY

Does this technology have a built-in bias?

Do a brainstorm. Can you find a built-in bias in this technology? Maybe because of the way the data was collected, either by personal bias, historical bias, political bias or a lack of diversity in the people responsible for the design of the technology? How do you know this is not the case? Be critical. Be aware of your own biases.…

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